

## TROUBLESHOOTING GUIDE

# DETAILED REFERENCE

Potential Failure Mode	Potential Effect(s) of Failure	Potential Cause(s) / Mechanism(s) of Failure	Current Process Controls	Recommended Action(s)	Responsibility & Target Completion Date
Fails to feed any product, Bowl is vibrating	Staves down stream equipment of product	Bad Product	Low track & part presence sensors	Turn equipment off and remove bad product	Equipment operator
		Product jam	Low track & part presence sensors	Turn equipment off and remove jammed product	Equipment operator
		Wrong product	Low track & part presence sensors	Verify product and rev level to bowl design product	Manufacturing/ production technician/ engineer
		Incorrect power service, drive coils over heat, fire potential	Low track & part presence sensors	Inspect coil temperature, verify incoming power to equipment specifications	Electrical technician
Fails to feed at desired rate, bowl is vibrating	Staves down stream equipment of product at desired rate	Bad Product	Low track & part presence sensors, timing fault	Inspect product for defects, flash, burrs, particulate, cleanliness, etc.	Equipment technician
		Product level in bowl to high, too much product	Low track & part presence sensors, timing fault	Review bowl spec/ operation sheet optimum level	Equipment technician/ operator
		Product level in bowl to low, not enough product	Low track & part presence sensors, timing fault	Review bowl spec/ operation sheet optimum level	Equipment technician/ operator
		Wrong product	Low track & part presence sensors, timing fault	Verify product and rev level to bowl design product	Manufacturing/ production technician/ engineer
		Static build-up	Low track & part presence sensors, timing fault	Inspect product for possible static charge	Manufacturing/ production technician/ engineer

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			Low track & part presence sensors, timing fault	Install de-ionizing equipment at problem spots (Simco HS nozzle)	Manufacturing/ production technician/ engineer
		Dirty/film build up on bowl, from product (oil, paint, release agents, etc.)	Low track & part presence sensors, timing fault	Inspect and clean internal surfaces with approved solvents (lint-less)	Equipment technician/ operator
			Low track & part presence sensors, timing fault	Revise product processing/ handling, clean product before feed	Manufacturing/ production technician/ engineer
		Drive control setting to low	Low track & part presence sensors, timing fault	Increase control setting (to no more than 80%)	Equipment technician
		Drive spring damage/wear	Low track & part presence sensors, timing fault	Contact for service	Jerhen 815.397.0400
		Unlevel feeder support table	Low track & part presence sensors, timing fault	Inspect for table level and that it is in firm contact with floor	Equipment technician/ operator
		Loose bolts/ fasteners	Low track & part presence sensors, timing fault	Inspect for tightness and presence of bolts and fasteners	Equipment technician/ operator
		Incorrect power service, drive coils over heat, fire potential	Low track & part presence sensors, timing fault	inspect coil temperature, verify incoming power to equipment specifications. Voltage and hertz	Electrical technician

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Potential Failure Mode	Potential Effect(s) of Failure	Potential Cause(s) / Mechanism(s) of Failure	Current Process Controls	Recommended Action(s)	Responsibility & Target Completion Date
Fails to feed, bowl is not vibrating	Staves down stream equipment of product	Incorrect power service, drive coils over heat, fire potential	Low track & part presence sensors, timing fault	inspect coil temperature, verify incoming power to equipment specifications. Voltage and hertz	Electrical technician
		Power failure	Low track & part presence sensors, timing fault	Check power switch	Equipment technician/operator
			Low track & part presence sensors, timing fault	Check power plug at outlet receptacle	Equipment technician/operator
			Low track & part presence sensors, timing fault	Check system/controller fuse(s)	Equipment technician/operator
			Low track & part presence sensors, timing fault	Check incoming power, from service	Electrical technician
			Low track & part presence sensors, timing fault	Check power to drive coil	Electrical technician
		Drive control setting to low	Low track & part presence sensors, timing fault	Increase control setting (to no more than 80%)	Equipment technician
		Drive coil support failure	Low track & part presence sensors, timing fault	Inspect drive coil mounting for tightness and/or cracks. Set correct gap spacing. Contact service	Jerhen 815.397.0400
		Controller failure	Low track & part presence sensors, timing fault	After complete inspection, no power to coil/drivers, fuse replaced, power in - OK	Jerhen 815.397.0400